BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

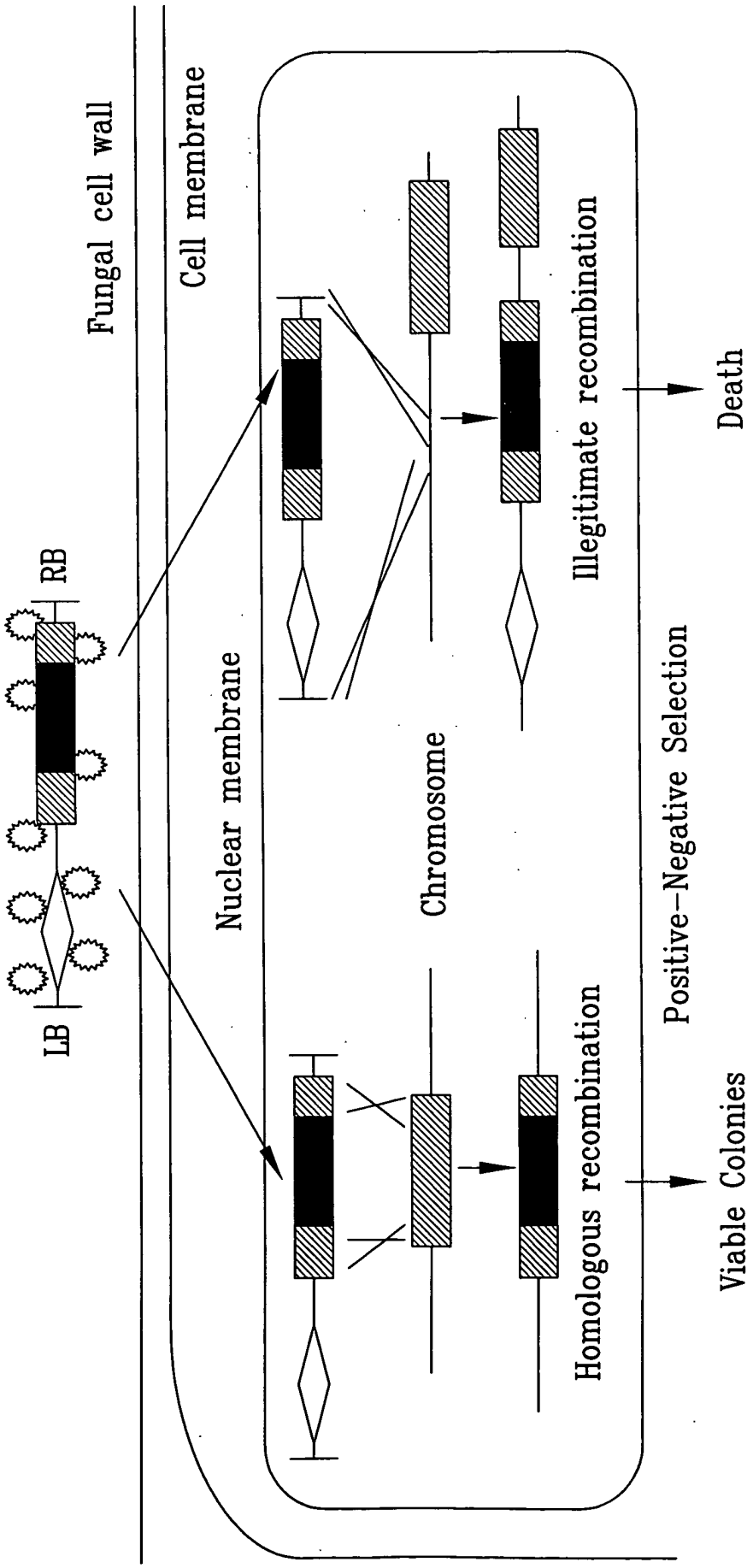

Fungal cell wall
Cell membrane
RB
LB
Nuclear membrane
Chromosome
Illegitimate recombination
Death
Positive-Negative Selection
Homologous recombination
Viable Colonies

Fig. 1

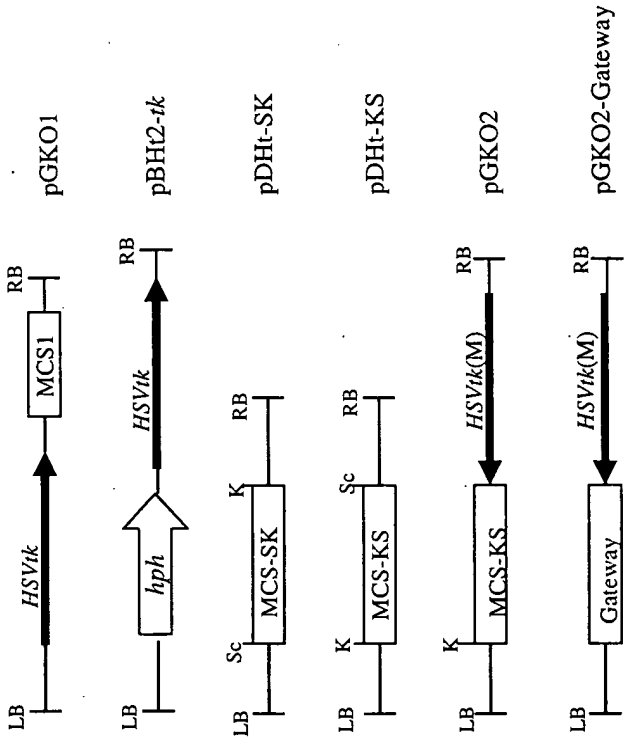

pGKO1
pBHt2-tk
pDHt-SK
pDHt-KS
pGKO2
pGKO2-Gateway
RB
LB
MCS1
HSVtk
hph
K
Sc
MCS-SK
MCS-KS
HSVtk(M)
Gateway

Fig. 2

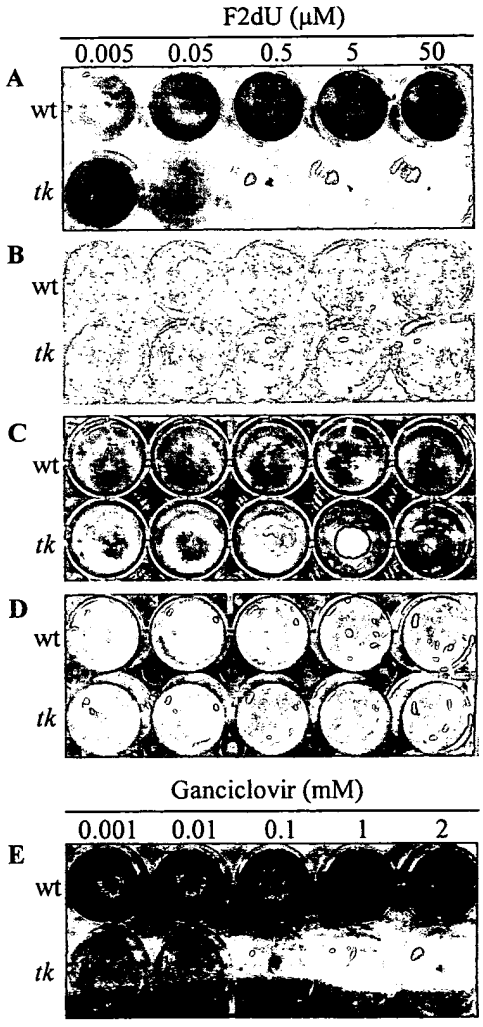

F2dU (μM)
0.005
0.05
0.5
5
50
A
wt
tk
B
wt
tk
C
wt
tk
D
wt
tk
Ganciclovir (mM)
0.001
0.01
0.1
1
2
E
wt
tk

Fig.3

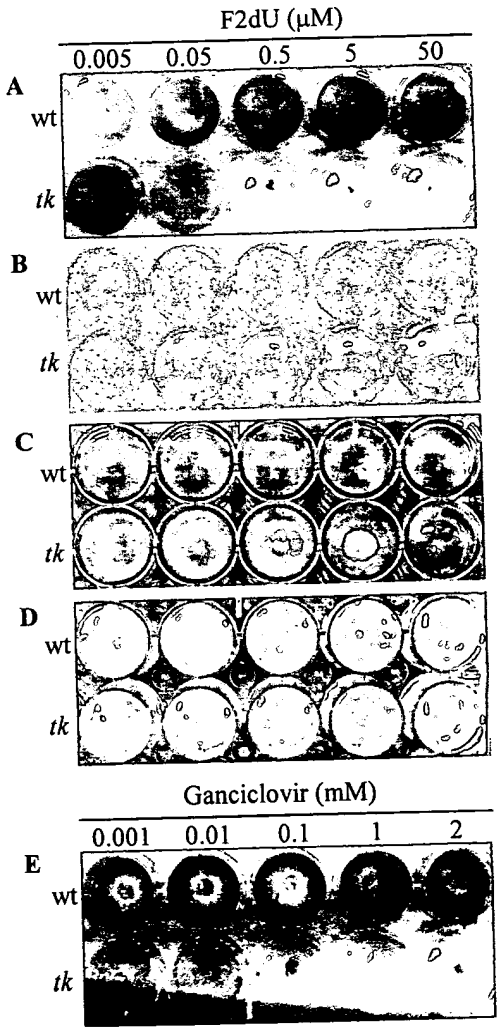

F2dU (μM)
0.005
0.05
0.5
5
50
A
wt
tk
B
wt
tk
C
wt
tk
D
wt
tk
Ganciclovir (mM)
0.001
0.01
0.1
1
2
E
wt
tk

Fig.3

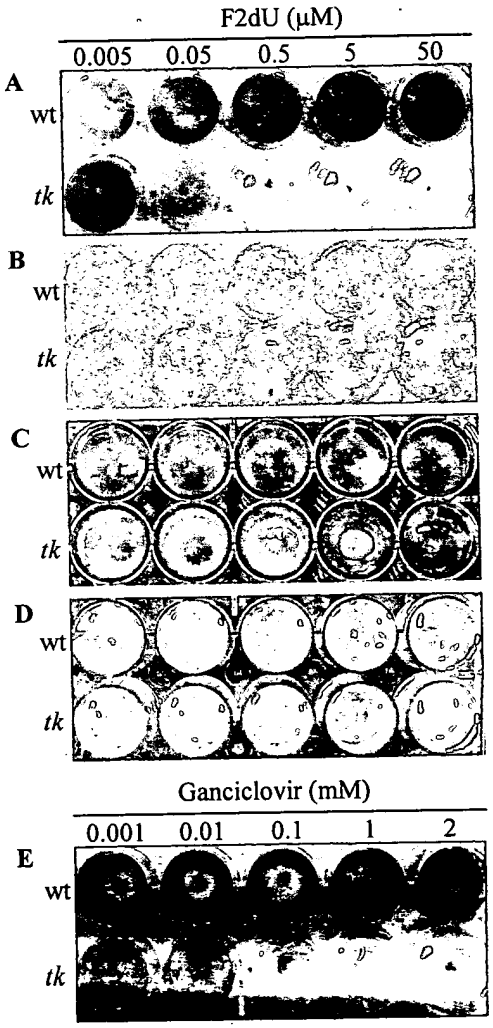

F2dU (μM)
0.005
0.05
0.5
5
50
A
wt
tk
B
wt
tk
C
wt
tk
D
wt
tk
Ganciclovir (mM)
0.001
0.01
0.1
1
2
E
wt
tk

Fig.3

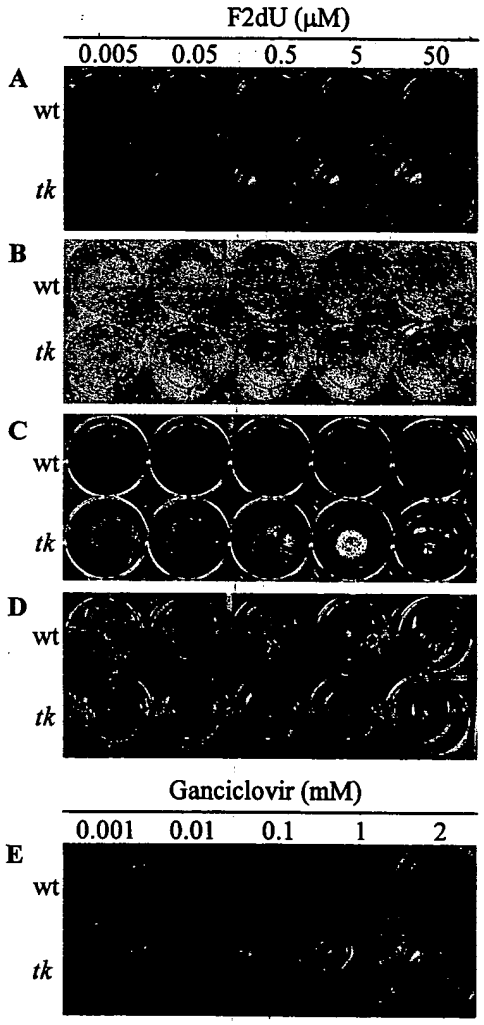

F2dU (μM)
0.005
0.05
0.5
5
50
A
wt
tk
B
wt
tk
C
wt
tk
D
wt
tk
Ganciclovir (mM)
0.001
0.01
0.1
1
2
E
wt
tk

Fig.3

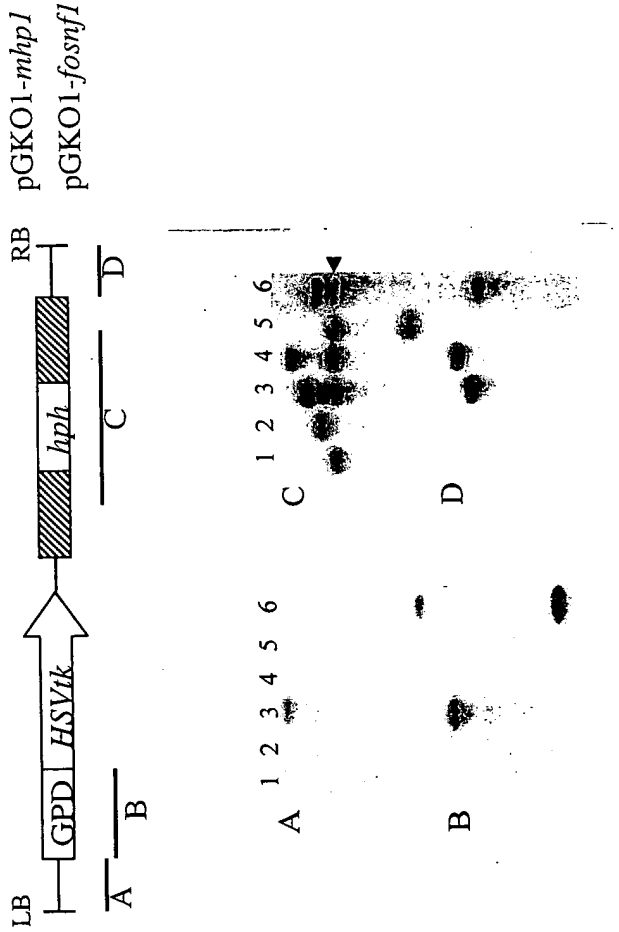
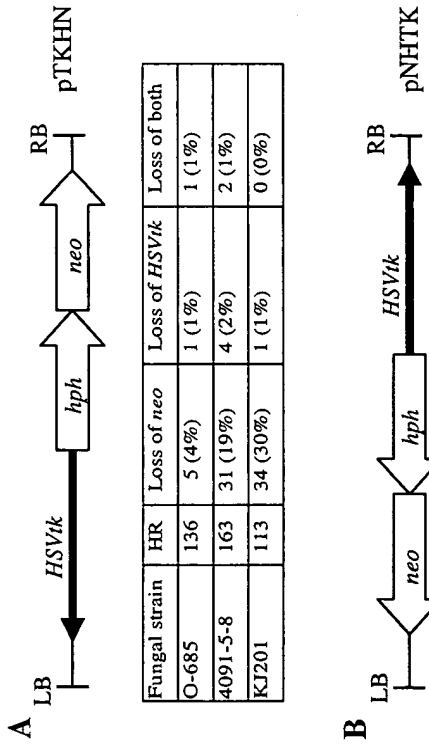


Fig. 4



Fungal strain	HR	Loss of *neo*	Loss of *HSVtk*	Loss of both
O-685	136	5 (4%)	1 (1%)	1 (1%)
4091-5-8	163	31 (19%)	4 (2%)	2 (1%)
KJ201	113	34 (30%)	1 (1%)	0 (0%)

Fungal strain	HR	Loss of *neo*	Loss of *HSVtk*	Loss of both
O-685	83	2 (2%)	3 (3%)	0 (0%)
4091-5-8	173	29 (17%)	22 (13%)	5 (3%)
KJ201	98	24 (24%)	8 (8%)	1 (1%)

Fig. 5